PATENT ABSTRACTS OF JAPAN

(11)Publication number: 01-096040

(43)Date of publication of application: 14.04.1989

(51)Int.Cl. C03B 37/014

// G02B 6/00

(21)Application number: 62-253861 (71)Applicant: FUJIKURA LTD

(22)Date of filing: 09.10.1987 (72)Inventor: NISHIDE KENJI

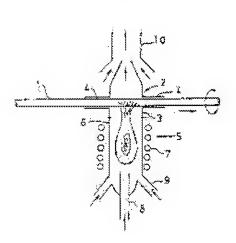
TANAKA TAIICHIRO

(54) SURFACE TREATMENT OF OPTICAL FIBER PREFORM

(57)Abstract:

PURPOSE: To obtain an optical fiber with improved transmission loss and mechanical strength by polishing the outer periphery of the optical fiber preform with a laser beam or a plasma flame under a positive pressure.

CONSTITUTION: The optical fiber preform 1 is allowed to pierce the insertion pipe 4 formed on the barrel part 3 of a positive-pressure vessel 2, rotated, and moved in the direction as shown by the arrow. A gaseous etchant is then supplied from supply nozzles 8 and 9 to make the pressure in the vessel 2 positive. A plated circuit current is impressed on an induction coil 7, and the outer periphery of the preform 1 is polished by the generated plasma flame or laser beam.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's

decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]